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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2024-01-04-05

Date: 09/01/2024

Project Name : Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)

Agency : M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073

Customer's Reference : BBMP/EE/BTP/WO/66/2022-23

Date of Receipt : 14-12-23

Customer ID : SF Roof Slab Concrete - After Water proofing

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/01/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	09/01/2024	150.93 X 150.97 X 150.34	22786	8.205	399.2	17.5	17.3
2	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	09/01/2024	150.81 X 150.44 X 150.10	22688	8.704	392.7	17.3	
3	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	09/01/2024	150.90 X 150.73 X 151.00	22745	8.639	387.4	17.0	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sig.....
Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-01-04-05

Date: 19/12/2023

Project Name : Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)

Agency : M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073

Customer's Reference : BBMP/EE/BTP/WO/66/2022-23

Date of Receipt : 14-12-23

Customer ID : SF Roof Slab Concrete - After Water proofing

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/12/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	19/12/2023	150.07 X 150.70 X 150.37	22615	8.519	240.3	10.6	10.5
2	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	19/12/2023	150.89 X 150.07 X 150.92	22644	8.490	230.1	10.2	
3	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	19/12/2023	150.57 X 150.35 X 150.88	22638	8.429	241.2	10.7	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/01/2024

Lab ID	:	CP-2024-01-04-05
Project Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
Agency	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
Customer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
Date of Receipt	:	14-12-23
Customer ID	:	SF Roof Slab Concrete - After Water proofing
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/01/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	09/01/2024	150.64 X 150.85 X 150.67	22725	8.962	398.7	17.5	17.5
2	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	09/01/2024	150.03 X 150.04 X 150.59	22510	8.148	397.4	17.7	
3	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	09/01/2024	150.39 X 150.66 X 150.67	22658	8.124	391.9	17.3	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL PRO BANGALORE Sig..... Date.....

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2024-01-04-05

Date: 19/12/2023

Project Name : Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)

Agency : M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073

Customer's Reference : BBMP/EE/BTP/WO/66/2022-23

Date of Receipt : 14-12-23

Customer ID : SF Roof Slab Concrete - After Water proofing

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/12/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	19/12/2023	150.82 X 150.05 X 150.05	22631	8.183	226.7	10.0	10.5
2	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	19/12/2023	150.12 X 150.97 X 150.91	22663	8.833	243.4	10.7	
3	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	19/12/2023	150.93 X 150.52 X 150.26	22718	8.502	244.1	10.7	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-01-04-05

Date: 09/01/2024

Project Name : Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)

Agency : M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073

Customer's Reference : BBMP/EE/BTP/WO/66/2022-23

Date of Receipt : 14-12-23

Customer ID : SF Roof Slab Concrete - After Water proofing

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/01/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	09/01/2024	150.04 X 150.86 X 150.96	22636	8.119	403.5	17.8	17.7
2	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	09/01/2024	150.76 X 150.17 X 150.58	22639	8.109	399.1	17.6	
3	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	09/01/2024	150.85 X 150.48 X 150.91	22700	8.177	397.3	17.5	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2024-01-04-05

Date: 19/12/2023

Project Name : Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)

Agency : M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaraghatta Main Road, Bengaluru 5600073

Customer's Reference : BBMP/EE/DTP/WO/66/2022-23

Date of Receipt : 14-12-23

Customer ID : SF Roof Slab Concrete - After Water proofing

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/12/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	19/12/2023	150.19 X 150.95 X 150.79	22671	8.639	240.7	10.6	10.5
2	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	19/12/2023	150.50 X 150.92 X 150.23	22713	8.729	234.3	10.3	
3	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	19/12/2023	150.67 X 150.68 X 150.96	22704	8.486	243.2	10.7	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-01-04-05 Date: 09/01/2024

Project Name : Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)

Agency : M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073

Customer's Reference : BBMP/EE/BTP/WO/66/2022-23

Date of Receipt : 14-12-23

Customer ID : SF Roof Slab Concrete - After Water proofing

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/01/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	09/01/2024	150.63 X 150.54 X 150.86	22675	8.908	390.8	17.2	17.4
2	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	09/01/2024	150.91 X 150.99 X 150.08	22786	8.114	396.4	17.4	
3	SF Roof Slab Concrete - After Water proofing	M15	12/12/2023	09/01/2024	150.45 X 150.07 X 150.94	22578	8.718	395.3	17.5	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sig.....
Date.....

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	CP-2024-01-04-05 Date: 18-03-23
Project Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
Agency	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
Customer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
Date of Receipt	:	15-03-23
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	15-03-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2024-01-04-05** **Date: 18-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID	:	CP-2024-01-04-05 Date: 19-03-23
Project Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
Agency	:	M/s Venkateshwara Asphalts and Concrete Mix. Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
Customer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
Date of Receipt	:	15-03-23
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (RA 2019) (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	15-03-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	13	48	4.8	95.2	95-100
4	1.18 mm	46	94	9.4	90.6	90-100
5	600 micron	97	191	19.1	80.9	80-100
6	300 micron	207	398	39.8	60.2	20-65
7	150 micron	517	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro
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Date.....
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2024-01-04-05** **Date: 19-03-23**

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

TEST REPORT OF CERAMIC TILES

Lab ID	:	CP-2024-01-04-05 Date: 25-09-23
Project Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
Agency	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
Customer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
Date of Receipt	:	19-09-23
Sample Type/ Size	:	Ceramic tiles (300X300)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2019, IS 15622:2018
Date of test	:	19-09-23

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	6.04	6.01	6.08	6.04
2	300	300	300	300	6.01	6.07	6.01	6.01
3	300	300	300	300	6.03	6.05	6.06	6.03
4	300	300	300	300	6.06	6.05	6.08	6.06
5	300	300	300	300	6.08	6.06	6.05	6.08
6	300	300	300	300	6.03	6.07	6.07	6.07
7	300	300	300	300	6.08	6.05	6.08	6.07
8	300	300	300	300	6.02	6.05	6.04	6.05
9	300	300	300	300	6.04	6.04	6.02	6.04
10	300	300	300	300	6.04	6.01	6.05	6.04
Average	300		300		6.05			

CIVIL Pro Sig..... Date.....

'Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

SLno	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

SLNo.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	300	300	6.04	14.8	14.66
2	300	300	6.06	14.2	
3	300	300	6.02	14.9	
4	300	300	6.06	14.8	
5	300	300	6.05	14.6	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2024-01-04-05
		Date: 20-03-23
Project Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
Agency	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
Customer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
Date of Receipt	:	16-03-23
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	16-03-23

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	199	200	16119	31.352	1945.0	1975.2	Not less than 1800Kg/m^3
2	402	203	201	16403	31.771	1936.9		
3	402	200	201	16160	33.029	2043.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

CIVIL PRO Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

: CP-2024-01-4445 Date: 28-03-23

Lab ID

DIMENSION ANALYSIS

Slno	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	200	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	202	202	
3	403	202	201	
4	400	202	203	
5	403	200	202	
6	403	200	200	
7	402	201	199	
8	400	199	201	
9	401	201	202	
10	403	202	203	
11	402	202	199	
12	402	201	200	
13	401	200	200	
14	401	200	199	
15	402	203	202	
16	403	202	203	
17	400	202	201	
18	403	201	199	
19	399	200	201	
20	399	201	202	
Average of 20	402	201	201	

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Lab ID : CP-2024-01-04-05 Date: 20-03-23

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	200	80049	353.1	4.4	4.4
2	402	202	81334	358.6	4.4	
3	403	202	81630	345.8	4.2	
4	400	202	80764	351.3	4.4	
5	403	200	80700	370.0	4.6	
6	403	200	80792	358.2	4.4	
7	402	201	80675	348.6	4.3	
8	400	199	79664	357.5	4.5	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sig.....
Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2024-01-04-05
		Date: 22-11-23
Project Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
Agency	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaraghatta Main Road, Bengaluru 5600073
Customer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
Date of Receipt	:	18-11-23
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	18-11-23

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	149	202	12129	21.795	1796.9	1866.0	Not less than 1800Kg/m^3
2	400	148	199	11781	21.289	1807.1		
3	399	148	202	11929	23.784	1993.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

CIVIL Pro Sig..... Date..... BANGALORE

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Lab ID : CP:2024-01-04-05

Date: 22-11-23

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	152	201	
2	401	150	201	
3	401	149	203	
4	401	150	200	
5	402	151	201	
6	404	152	201	
7	404	149	201	
8	400	150	202	
9	399	150	201	
10	400	149	201	
11	400	149	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
12	401	152	199	
13	399	150	202	
14	404	150	202	
15	403	151	202	
16	400	152	201	
17	399	151	202	
18	402	152	200	
19	403	151	202	
20	403	151	200	
Average of 20	401	151	201	

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'Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Lab ID : CP-2024-01-04-05 Date: 22-11-23

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	152	60625	267.7	4.4	4.3
2	403	149	60214	251.7	4.2	
3	402	151	60621	250.6	4.1	
4	399	152	60559	250.6	4.1	
5	401	149	59744	255.4	4.3	
6	400	151	60427	266.3	4.4	
7	401	152	60997	270.6	4.4	
8	403	153	61660	252.7	4.1	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

	Compressive strength	
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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Kodigehalli Sub Division
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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2024-01-04-05
		Date: 20-03-23
Project Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
Agency	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
Customer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
Date of Receipt	:	16-03-23
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	16-03-23

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	101	198	8099	17.423	2151.2	1991.2	Not less than 1800Kg/m^3
2	405	103	201	8385	14.112	1683.0		
3	398	100	198	7880	16.859	2139.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

Assistant Executive Engineer
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BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : CP-2024-01-04-05 Date: 20-03-23

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	100	199	
2	404	100	201	
3	400	101	202	
4	401	102	200	
5	401	99	200	
6	403	100	202	
7	403	99	199	
8	399	101	201	
9	403	102	199	
10	404	103	201	
11	404	101	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
12	402	100	202	
13	400	99	201	
14	402	99	203	
15	399	99	199	
16	404	99	203	
17	403	102	202	
18	401	99	200	
19	403	101	203	
20	401	99	201	
Average of 20	402	100	201	

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig Date BANGALORE

Lab ID : CP-2024-01-04-05 Date: 20-03-23

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	100	40076	170.3	4.2	4.3
2	401	99	39852	175.4	4.4	
3	400	101	40507	160.1	4.0	
4	403	101	40885	165.0	4.0	
5	399	102	40549	177.7	4.4	
6	403	100	40178	186.2	4.6	
7	401	101	40481	164.7	4.1	
8	401	101	40535	189.5	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

	Compressive strength	
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

Assistant Executive Engineer
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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTES ON STRUCTURAL STEEL

Lab ID : CP-2024-01-04-05 Date: 13-12-23

Project Name : Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)

Agency : M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073

Customer's Reference : BBMP/EE/BTP/WO/66/2022-23

Date of Receipt : 12-12-23

Type/ Description of Sample* : Purlin - RHS 100x 50 x4 th

Reference to BIS codes : IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.

Date of testing : 12-12-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	8.59Kg/m	–	
2	Thickness	4 mm	–	
3	Yeild Stress	270 N/mm^2	240 N/mm^2	
4	Tensile Strength	442 N/mm^2	410 N/mm^2	
5	Elongation Percentage	19%	Min 15%	
6	Bend Test	Satisfactory	–	

*The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Date.....

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Quality Manager

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